

~~CHERNOV, V.A., inzh.~~

A device for pulling bolts out of wooden power transmission line  
poles. Energetik 11 no.1:27-29 Ja '63. (MIRA 16:1)  
(Electric lines--Poles and towers)

CHERNOV, V. A.

"Effect of Preparations of Mistletoe on the Growth of Transplanted  
Tumors in Experimental Animals." Sub 20 Jun 51, All-Union Sci Res  
Chemicopharmaceutical Inst imeni Sergo Ordzhonikidze (VNIKhFI). *Confidential*

Dissertations presented for science and engineering degrees in  
Moscow during 1951.

SO: Sum. No. 480, 9 May 55

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9

control area, the results of toxicity, pharmacokinetics and pharmacodynamics of the tested therapeutic agents on the norm.

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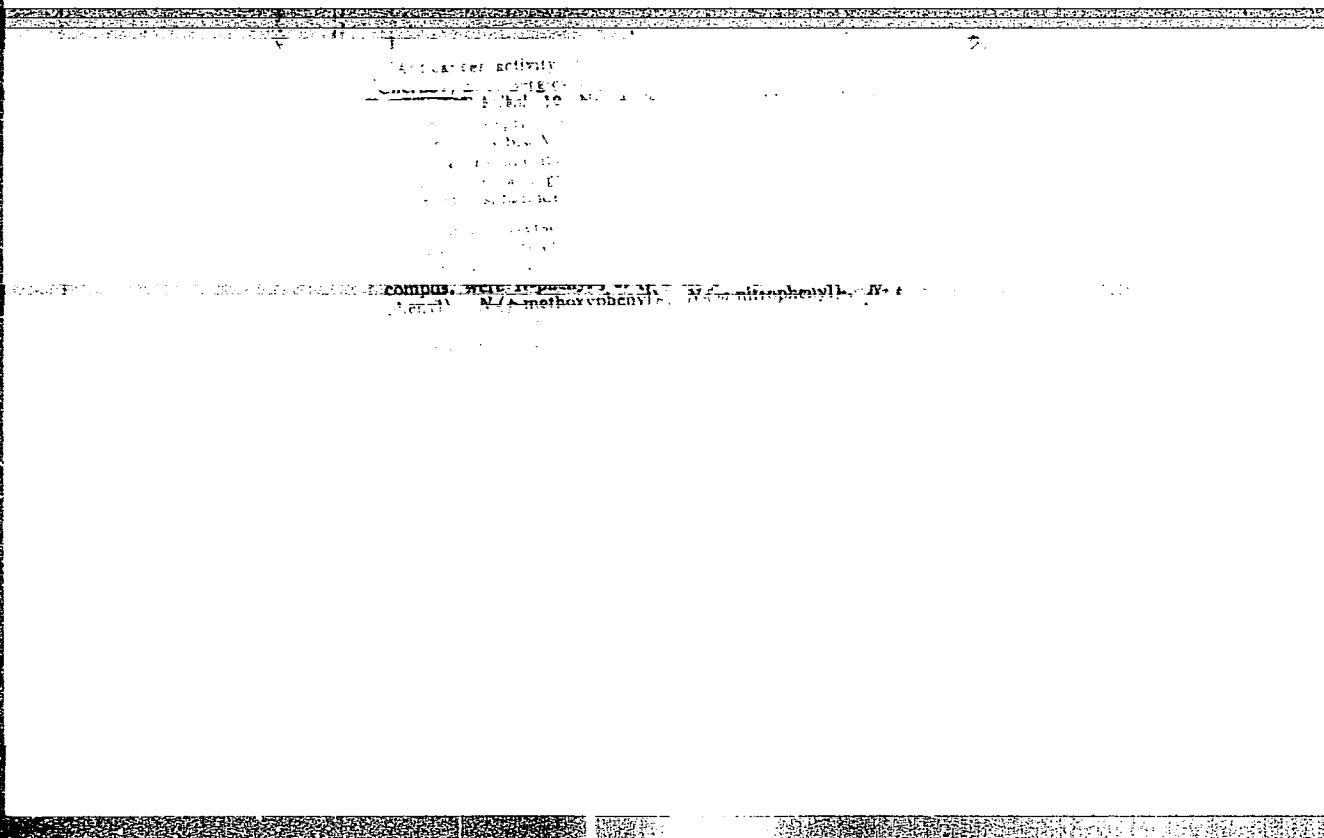
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USSR/General Problems of Pathology. Tumors

U-4

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 32586

Author : Chernov V.A., Sroodov S.M., Zbarsky I.B.

Inst : Not Given

Title : Protein Changes in Cell Nuclei During Growth and Regression Induced in the Transplanted Rat Sarcoma "45" by Triethylenephosphoramide.

Orig Pub : Vopr. onkologii, 1957, 3, No 3, 283-288

Abstract : The relation was studied of protein fractions: nucleo-protein, acid and residual protein (I.B. Zbarskiy and S.S. Debov, 1948, 1951), in the nuclei of rats with sarcoma 45 in different stages of growth and regression of the tumor under the influence of triethylenephosphoramide (TEP). The animals (30-50 rats with weight  $100 \pm 20$  g) were divided into two groups. The rats tested from the 6-8th day after inoculation of the tumor (I, early stage) received daily dosages given intraperitoneally for 4-6 (II stage) or 8-12 (III stage) days of the TEP drug (0.25 mg in 1 rat). The content of the protein

Card : 1/3

ADS Jour : Rof Zhur - Biol., No 7, 1958, No 32586

fractions in all three stages was determined biochemically (the nucleic were isolated in a neutral medium according to I.B. Zbarskiy and K.A. Perovoshchikovyy, 1951; fractionated according to the method of I.B. Zbarskiy and S.S. Debov, 1948) and expressed in percentages of nitrogen of the general nucleolar nitrogen (S.S. Debov, 1951). It was established that in the process of growth of sarcoma 45 (the weight of the tumors in the control toward the end of the experiment reached 30 g and higher) an increase of residual protein occurred (differing from normal tissues) at the expense of the first two protein fractions, analogous to that observed previously in Krokor sarcoma and hepatoma "G-22" of mice. During the regression of sarcoma 45 under the influence of TEP (after 10-12 injections, the tumors in the majority of cases were reabsorbed) a shift was noted in the nucleic fractions to the side of the normal: residual protein is reduced and the first two fractions are increased. Whether these changes are connected

Cord : 2/3

USSR/General Problems of Pathology - Tumors

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Abs Jour : Rof Zhur - Biol., No 7, 1958, No 32586

with the substitution of part of the tumorous cells with normal ones or with changes in the tumorous cells themselves remains unclear. The work is illustrated with 2 tables and 1 figure.

Card : 3/3

Chernov, V.A.

CHERNOV, V.A.; ZAKHAROVA, Zh.F.

Effects of triethylenephosphoramide on nucleic acid metabolism in a neoplasm and some organs of animals with transplanted tumors (rat sarcoma "45") [with summary in English]. Vop.onk.3 no.3:289-295 '57.  
(MLRA 10:8)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (zav. - kandidat biologicheskikh nauk V.A.Chernov) otdela khimioterapii (zav. - prof. G.N.Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. S.Ordzhonikidze (dir. - prof. M.V.Rubtsov). Adres avtorov: Moskva, G-21, Zubovskaya ul., d.7, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidze.

(CYTOTOXIC DRUGS, eff.

triethylene phosphoramide on nucleic acid metab. in neoplasm & various organs of rats with transplanted sarcoma 45 (Rus))

(NUCLEIC ACIDS, metab.

eff. of triethylene phosphoramide on metab. in neoplasm & various organs of rats with transplanted sarcoma 45 (Rus))

*CHERNOV V.A.*

CHERNOV, V.A.; LYTKINA, V.B.

~~Antitumorigenic activity of tetraethylenimidpiperazine-N,  
N'-diphosphoric acid (dipine) [with summary in English]~~ *Vop.onk.*  
*3 no.5:546-556 '57.* *(MIRA 11:2)*

1. Iz laboratoriï eksperimental'noy khimioterapii opukholey  
(rukoved. - kand.biol.nauk V.A.Chernov) otdela khimioterapii  
(rukoved. - prof. G.N.Pershin) Vsesoyuznogo nauchno-issledovatel'-  
skogo khimiko-farmatsevticheskogo instituta im. S.Ordzhonikidze,  
Moskva. Adres avtorov: Moskva, G-21, Zubtsovskaya ul. d.7,  
Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut.

(CYTOTOXIC DRUGS, eff.

N,N'-bis(diaziridinyl-phosphinylidyne)-piperazine,  
carcinostatic eff.)

(NEOPLASMS, eff. of drugs on

N,N'-bis (diaziridinyl-phosphinylidyne)-piperazine,  
carcinostatic eff.)

CHERNOV, V.A., LYTKINA, L.G.

Antileukemic activity of betazine and of some of its analogues.  
Probl.gemat. i perel. krovi 3 no.4:32-42 Jl-Ag'58 (MIRA 11:8)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (zav. -  
kand.biol.nauk V.A. Chernov) otdela khimioterapii (zav. - prof. G.N.  
Pershin). Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsev-  
ticheskogo instituta imeni S. Ordzhonikidze.

(TYROSINE, rel cpds.

beta tyrosine & deriv., pharmacol. & antileukemic eff  
(Rus))

(CYTOTOXIC DRUGS,  
same (Rus))

(LEUKENIA, experimental,

eff. of beta tyrosine & deriv.(Rus))

CHERNOV, V.A.

Myelosan, an effective drug in treating chronic myeloleukemia. Med.  
prom. 12 no.2:69-61 P '58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S.Ordzhonikidze.  
(LEUKEMIA) (METHANESULFONIC ACID)

CHERNOV, V.A. (Moskva)

Myelosan (1,4-dimethanesulfonilorybutane) and its significance  
in the therapy of chronic myeloleukosis. Klin.med. 36 no.7:73-82  
Jl '58 (MIRA 11:11)

1. Iz laboratori eksperimental'noy khimioterapii opukholey  
(rukoveditel' - kand. biologicheskikh nauk V.A. Chernov) otdela  
khimioterapii (rukoveditel' - prof. G.N. Pershin) Vsesoyuznogo  
nauchno-issledovatel'skogo khimiko-fermatsevticheskogo  
instituta imeni Sergo Ordzhonikidze.

(BUSULFAN, ther. use  
leukemia, myelocytic (Rus))  
(LEUKEMIA, MYELOCYTIC, ther.  
busulfan (Rus))

CHERNOV, V.A.; LYTKINA, L.G.

On antileukemic activity of ethyleneimine derivatives and of certain other chemical agents. Probl.gemat.u perel.krovi 4 no.12:14-23 E '59.  
(MIRA 13:4)

I. Iz laboratorii eksperimental'noy khimioterapii opukholey (zaveduyushchiy V.A. Chernov) otdela khimioterapii (zaveduyushchiy - prof. G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S. Ordzhonikidze,  
(ANTINEOPLASTIC AGENTS pharmacol.)

CHERNOV, V.A.; LYTKINA, V.B.

Use of tissue culture in vitro for the primary selection of antitumor preparations. Vop.onk. 5 no.5:552-560 '59. (MIRA 12:12)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (rukovoditel' - kand. biol. nauk V.A. Chernov) otdela khimioterapii (rukovoditel' - prof. G.N. Pershin) Vsescouznoogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. S. Ordzhonikidze. Adres avtora: Moskva, G-21, Zubovskaya, d.7, Vsescouznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze.

(CYTOTOXIC DRUGS, eff.

on sarcoma 45 in rats, use of tissue culture in vitro  
for primary selection of agent (Rus))

CHERNOV, V.A.

Drugs influencing the antitumoral effect of ethylenimine derivatives in experiments on animals. Vop.onk. 5 no.6:686-698 '59. (MIRA 12:12)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (zav. - kand.biol.nauk V.A. Chernov) otdela khimioterapii (zav. - prof. G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta im. S. Ordzhonikidze. Adres avtora: Moskva, Q-21, ul. Zubovskaya, d.7, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut im. S. Ordzhonikidze.

(CYTOTOXIC DRUGS, eff.

on exper.animal tumors, influence of various other drugs (Rus))

(NEOPLASMS, exper.

eff. of various drugs on antitumor eff. of various cytotoxic agents in animals (Rus))

EXCERPTA MEDICA Sec 16 Vol 7/12 Cancer Dec 59

\*5094. Mechanism of the antitumorous action of ethylenimine derivatives  
**(Russian text)** CHERNOV V. A., GRUSHINA A. A. and ZAKHAROVA G. F. The All-Union Chemopharmaceut. Inst., Moscow *Vopr. Onkol.* 1959, 5/9 (359-361) Graphs 3

Tables 4. Illus. 1

The influence of thio-TEPA and dipine on the pituitary, adrenals, thyroid, thymus and gonads of normal and tumour-bearing rats (sarcoma 45) was studied, partly in combination with adrenalectomy and administration of somatotrophic hormone. Both drugs cause some inhibition of growth and regression of the tumour, plus marked atrophy of the thymic and lymphatic tissue, decrease in weight and function of the thyroid gland, decrease in weight of the hypophysis and gonads, and some adrenal hypertrophy within some animals, a certain accumulation of ketosteroids. These findings suggest that the endocrine system plays a role in the antitumorous effect of these drugs. (XVI, 2)

CHERNOV, V.A.

Present status of the medicinal treatment of malignant tumors.  
Med.prom. 13 no.4:17-28 Ap '59. (MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S.Ordzhonikidzze.  
(CANCER)

CHERNOV, V.A.

Contemporary status of the problem of drug therapy of malignant tumors. Med. prom. 13 no.5:6-14 My '59. (MIRA 12:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.  
(PHARMACOLOGY) (CANCER)

CHERNOV, V.A.; LYTKINA, V.B.; SERGIYEVSKAYA, S.I.; KROPACHEVA, A.A.;  
PARSHINA, V.A.; SVENTSITSKAYA, L.Ye.

On the antitumor activity of certain derivatives of the trimer and  
tetramer of phosphonitrile. Farm. i toks. 22 no.4:365-367 Jl-Ag '59.

(MIRA 13:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut imeni S. Ordzhonikidze.

(HETEROCLIC COMPOUNDS pharmacol.)  
(ANTINEOPLASTIC AGENTS pharmacol.)

CHERNOV, V. A. Doc Med Sci -- "Cytostatic substances in the chemotherapy of tumors (Experimental study)." Mos, 1960 (Min of Health USSR. Central Inst for the Advanced Training of Physicians). (KL, l-61, 205)

-353-

• CHERNOV, V.A.

ABRAMOVA, Zh.I., kand. med. nauk; ANICHKOV, S.V., prof.; BELEN'KIY, M.L., prof.; VAL'DMAN, A.V., doktor med. nauk; VEDENYEVA, Z.I., kand. med. nauk; VINOGRADOV, V.M., kand. med. nauk; GERSHANOVICH, M.L., kand. med. nauk; GINETSINSKIY, A.G., prof.; GORBOVITSKIY, S.Ye., prof.; GREBENKINA, M.A., dotsent; GREKH, I.F., dots.; DENISENKO, prof.; KIVMAN, G.Ya., kand. med. nauk; D'YACHENKO, P.K., kand. med. nauk; ZHESTYANIKOV, P.P., kand. med. nauk; ZAUGOL'NIKOV, S.D., prof.; ZEYNAL', E.V., kand. V.D., kand. med. nauk; ISKAREV, N.A., kand. med. nauk; KARASIK, V.M., prof.; med. nauk; KROTOV, KOTOKOV, V.N., kand. med. nauk; LAZAREV, N.V., A.I., doktor veter. nauk; KUDRIN, A.N., doktor med. nauk; LAPIN, I.P., kand. med. nauk; MEL'NIKOVA, V.F., prof.; MESHCHERSKAYA, K.A., prof.; MIKHEL'SON, M.Ya., prof.; MOSHKOVSKIY, Sh.D., prof.; PADEYSKAYA, Ye.N., kand. med. nauk; PARIBOK, V.P., prof.; PERSHIN, G.N., prof.; PLANEL'YES, Kh.Kh., prof.; PONOMAREV, G.A., prof.; POSKALENKO, A.N., kand. med. nauk; MUKHIN, Ye.A., dots.; ROZOVSKAYA, Ye.S., dots.; RYBOLOLEV, R.S., starshiy nauchnyy sotr.; SALYAMON, L.S., kand. med. nauk; SAFRAZBEKYAN, R.R., kand. biol. nauk; TIUNOV, L.A., kand. med. nauk; TOMILINA, T.N., dots.; FELISTOVICH, G.I., kand. med. nauk; FRUYENTOV, N.K., kand. med. nauk; KHAUNINA, R.A., kand. med. nauk; TSYGANOV, S.V., prof. [deceased]; CHERKES, A.I., prof.;

(Continued on next card)

1961

ABRAMOVA, Zh.I.----(continued) Card 2.

CHERNOV, V.A., doktor med. nauk; SHADURSKIY, K.S., prof.;  
YAKOVLEV, V.Ya., doktor khim. nauk; MASHKOVSKIY, M.D., red.;  
NIKOLAYEVA, M.M., red.; RULEVA, M.S., tekhn. red.; CHUNAYEVA,  
Z.V., tekhn. red.

[Manual on pharmacology] Rukovodstvo po farmakologii. Leningrad,  
Medgiz. Vol.2. 1961. 503 p. (MIRA 15:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for  
Anichkov, Karasik, Cherkes). 2. Chlen-korrespondent Akademii medi-  
tsinskikh nauk SSSR (for Belen'kiy, Ginetsinskiy, Moshkovskiy,  
Planel'yes).

(PHARMACOLOGY)

CHERNOV, V.A.; GRUSHINA, A.A.

Antiblastic (antileukemic) action of thiadipin in an experiment.  
Probl. gemat.i perel.krovi no.2:3-8 '62. (MIRA 15:1)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (zav. -  
V.A. Chernov), otdela khimioterapii (zav. - prof. G.N. Pershin)  
Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo  
instituta imeni S. Ordzhonikidze.

(CYTOTOXIC DRUGS)

CHERNOV, V. A.; PISKOV, V. B.; SORKINA, Yu. A.; LYTKINA, L. G.;  
LYTKINA, V. B.

Antiblastic activity of compounds containing an ethylene bond  
joined to carbonyl. Vop. onk. 8 no.5:24-32 '62.  
(MIRA 15:7)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey  
Vsescouznoego nauchno-issledovatel'skogo khimiko-farmatsevti-  
cheskogo instituta im. S. Ordzhonikidze i laboratorii radiologii  
instituta meditsinskoy i biologicheskoy khimii AMN SSSR.  
Adres avtorov: Moskva, Q-21, ul. Zubovskaya, d. 7, Vsescouznyy  
nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut  
imeni S. Ordzhonikidze.

(ETHYLENE) (CARBONYL GROUP) (CYTOTOXIC DRUGS)

CHERNOV, V.A.; PRESNOVA, Z.L.F.

Changes in depolymerase activity of nucleic acids in rats  
with transplantable tumors under the influence of ethylenimine  
derivatives. Vop. onk. 9 no.6:70-78 '63. (NIRA 17:8)

1. Iz laboratorli eksperimental'noy khimioterapii opukholey  
(rukoveditel' - doktor med. nauk V.A. Chernov) otdela khimio-  
terapii (zav. - shlen-korrespondent AMN SSSR prof. G.N.  
Pereshin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-  
farmatsevicheskogo instituta imeni N. Fedorovikida.

CHERNOV, V.A., GRUSHINA, A.A., IYTKINA, L.G.

Antineoplastic activity of phosphazine. Farm. i teks. 26 no.1  
102-108 Ja-F '63. (MIRA 17:7)

1. Laboratoriya eksperimental'noy khimioterapii opukholey  
(rukoveditel'-doktor med. nauk V.A. Chernov) otdela khimie-  
terapii (rukoveditel' - chlen korrespondent AMN SSSR prof.  
G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-  
farmatsevticheskogo instituta imeni S. Ordzhonikidze.

BUROV, Yu.V.; CHERNOV, V.A.

Effect of ganglionic blocking substances on the growth of trans-  
plantable tumors in animals. Farm. i toks. 26 no.4:452-455  
(MIRA 17:4)  
Jl-Ag'63

1. Laboratoriya chastnoy farmakologii (zav. - deystvitel'nyy  
chlen AMN SSSR prof. V.V. Zakusov) Instituta farmakologii i  
khimioterapii AMN SSSR i laboratoriya eksperimental'noy khi-  
mioterapii opukholey (zav. - doktor med. nauk V.A. Chernov)  
Vsесоyuznogo nauchno-issledovatel'skogo khimiko-farmatsevti-  
cheskogo instituta imeni S. Ordzhonikidze, Moskva.

CHERNOV, V.A.; VOLODARSKAYA, S.M.

Anti-tumor activity of allylamides and ethyleneimides of phosphoric and thiophosphoric acid. Vop. onk. 9 no.7:5-11:63  
(MIRA 16:12)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey (rukovoditel' - doktor med. nauk V.A.Chernov) otdela khimioterapii (rukovoditel' - chlen-korrespondent AMN SSSR prof. G.N.Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta.

CHERNOV, Vladimir Aleksandrovich; RAUSHENBAKH, M.O., red.

[Cytostatic substances in the chemotherapy of malignant neoplasms] TSitostaticheskie veshchestva v khimioterapii zлокачественных новообразований. Moskva, Meditsina, 1964. 318 p. (MIRA 17:6)

CHERNOV, V.A.; VOLODARSKAYA, S.M.; LYTINA, L.G.

Antineoplastic activity of some amines and amino acids of the  
indole series. Vop onk. 10 no.8:76-81 '64.

(MIRA 18:3)

1. Iz laboratorii eksperimental'noy khimioterapii opukholey  
(zav. - prof. V.A.Chernov) Vsesoyuznogo nauchno-issledovatel's-  
skogo khimiko-farmatsevticheskogo instituta imeni Ordzhonikidze.

PRESNOVA, Zh.F.; CHERNOV, V.A.

Changes in the antineoplastic activity of thiophosphamide caused by adrenaline under experimental conditions. Biul.eksp.biol.i med. 58 no.10:9C-92 O '64. (MIRA 18:12)

1. Laboratoriya eksperimental'noy khimioterapii opukholev (rukoveditel' - doktor med.nauk V.A.Chernov) otdela khimioterapii (zav. - chlen-korrespondent AMN SSSR prof. G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni Ordzhonikidze, Moskva.

CHERNOV, V.A.; YASHUNSKIY, V.G.

Antiblastic activity of sydnone imines in vitro. Dokl. AN SSSR  
155 no.1:216-219 Mr '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy  
institut im. S. Ordzhonikidze. Predstavлено akademikom M.M.  
Shemyakinyem.

CHERNOV, V.A., GARIBDEHANYAN, R.T.

Toxicity and antineoplastic activity of diethylen imides of substituted  
pyridoxylaminophosphoric acid depending on their chemical structure.  
Farm. zh., 19 no.30340-345. My-je 195. (MFA 12:8)

Dr. Iakobson (ya ekspериментальн. физиологии) uputlenye (zav. --  
prav. V.A. Chernova) otschita khimicheskogo (zav. -- chlen-korrespondent  
AKN SSSR prof. G.M. Perel'man) trudyamogo nauchno-issledovatel'skogo  
instituta farmatsevticheskogo inzheneringa imeni D.S. Luria, Moskva.

CHERNOV, V.A., prof.; VOLDARSKAYA, S.M.; GAVRILOVA, A.I.

Antineoplastic activity and toxicity of some ethylene imides of phosphoric and phosphinic acids in connection with their structure.  
Farm. i toks. 28 no.1:70-73 Ja-F '65.

(MIRA 18:12)

1. Laboratoriya eksperimental'noy khimioterapii opukholey (rukoveditel' - prof. V.A.Chernov) Vsescyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta, Moskva. Submitted November 17, 1963.

PRESNOVA, Zh.F.; CHERNOV, V.A., prof.

Effect of the triethyleneimide of phosphoric acid on the glycogen content in the liver of rats with transplantable tumors. Farm. i toks. 28 no.5:581-584 S-0 '65. (MIRA 18:12)

1. Laboratoriya eksperimental'noy khimioterapii opukholey (rukoveditel' - prof. V.A.Chernov) otdela khimioterapii (rukoveditel' - chlen korrespondent AMN SSSR prof. G.N. Pershin) Vsesoyuznogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta imeni S.Ordzhonikidze, Moskva.  
Submitted June 25, 1964.

ACC NR: AP7002676

SOURCE CODE: UR/0109/67/012/001/0146/0149

AUTHOR: Petrun'kin, V. Yu.; Yesepkina, N. A.; Krushalov, S. V.; Pakhomov, L. N.;  
Chernov, V. A.

ORG: none

TITLE: Formation of the traveling wave in a complex optical resonator

SOURCE: Radiotekhnika i elektronika, v. 12, no. 1, 1967, 146-149

TOPIC TAGS: laser, ring laser, traveling wave, ~~laser, traveling wave ring laser~~  
~~resonator, optic resonator~~

ABSTRACT: An analysis is made of a method for calculating a ring resonator with supplementary external mirrors to obtain traveling wave excitation. The method is based on the theory of long lines as applied to the analysis of conditions for natural oscillation of the system. The essential part of the external arrangement is a system of two mirrors: one, with a partial transmission, is inclined to the beam, and the other, which is fully reflecting, is placed perpendicularly to the beam. A system of equations is given for the wave amplitudes as functions of the distance between the mirrors and their transmission and reflective indexes. The scattering matrix of the system is determined relative to the complex wave number, the real and imaginary parts of which represent, respectively, the natural frequency and the attenuation factors. The problem is solved for certain special cases, and from these solutions the relationship between the wave number and the parameters of the entire system (expressed

Card 1/2

UDC: 621.372.4.029.67

ACC NR: AP7002676

through a constant) can be deduced. Generally, however, the unavoidable reflection from the end facer of the resonator produces a reverse wave which must be eliminated before the operating traveling wave can travel only in one direction. This can be achieved either by coatings or by causing the reflected beams to deviate from the resonator axis and thus be ousted from the system. A rectangular ring laser, with near-optimal parameters, equipped with two supplementary mirrors as described, and with the end reflection eliminated by inclination of the active medium with respect to the resonator optical axis, was experimentally investigated under actual traveling-wave operation. Orig. art. has: 3 figures and 10 formulas. [WA-14]

SUB CODE: 20/ SUBM DATE: 29Jun66/ ORIG REF: 001/ OTH REF: 002/

Card 2/2

CHERNOV, V.A.; ANTIPIINA, T.V.

Kinetics of cumene cracking on aluminum oxide activated with  
boron fluoride. Kin. i kat. 4 no. 4:595-600 Jl-Ag '63.

(MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, khi-  
micheskiy fakul'tet.

CHERNOV, V.A.; ANTIPINA, T.V.

Aluminum fluoride as a catalyst for cracking of hydrocarbons.  
Kin. i kat. 6 no. 68114-1115 N-D '65 (MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova,  
khimicheskiy fakul'tet. Submitted December 19, 1964.

CHERNOV, V.A.

Practice of drilling deep holes in the Bakal deposit. Razved. i  
okh. nedr 26 no.4:54-55 Ap '60. (MIRA 15:7)

1. Chelyabinskij geologorazvedochnyy trest.  
(Bakal region—Boring)

SNAGOVSKIY, Ye.S.; CHERNOV, V.A.; POLYAKOVA, Z.V., red.

[Development of a remote control system and studies of  
mine remote control channels; report at the All-Union  
Conference of Coal Industry Planners] Razrabotka tele-  
mekhanicheskoi sistemy i issledovaniia shakhnykh kanalov  
telemekhaniki; doklad na Vsesoiuznom soveshchaniii proekti-  
rovshchikov ugol'noi promyshlennosti. Moskva, In-t gor-  
nogo dela, 1964. 19 p. (MIRA 18:9)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9

CEERNOV, V. A.

INCREASED c. '62

1962/

/6

Soil Science

see ILC

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9"

5(0), 30(1)

SOV/20-124-2-50/71

AUTHORS:

Chernov, V. A., Maksimova, V. S.

TITLE:

On the Substitution Reaction of Absorbed Hydrogen Ions by Ions of Aluminum and Magnesium in Clay (O reaktsii zameshcheniya v gline pogloshchennykh ionov vodoroda ionami alyuminiya i magniya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 2, pp 418-420  
(USSR)

ABSTRACT:

Due to the interaction between soils which had been artificially deprived of their exchange cations (obmennyye kationy) and 1.0 N -KCl solution hydrogen and aluminum ions were observed simultaneously in the filtrate of this solution, wherein aluminum ions mostly prevail. The relation between these two types of ions depends on their way of production. If the above-mentioned exchange cations are replaced by hydrogen ions the occurrence of aluminum ions in the KCl extract might be explained by a chemical reaction between the acid which had been formed due to the substitution of hydrogen ions for potassium cations and the soil. However, according to publications and some experimental results (already in 1946) the authors arrived

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On the Substitution Reaction of Absorbed Hydrogen Ions by Ions of Aluminum and  
Magnesium in Clay SOV/20-124-2-50/71

at the conclusion (Refs 1,2) that the soil saturated artificially with hydrogen ions is in an unstable state. In such a soil a spontaneous reaction (Ref 3) takes place. Due to this reaction the soil is saturated with aluminum ions, i.e. it enters a more stable state. For this reason the aluminum ions appear due to replacement by potassium cations in the KCl extracts from artificially saturated soils. The aluminum ions mentioned are in a state of exchange in the soils referred to. In order to prove more precisely the existence of the spontaneous reactions mentioned the authors studied the rate of the reaction with Askangel' clay (Ref 4). The results showed that a secondary chemical reaction is practically lacking between the above-mentioned acid and the clay; the KCl solution removes those ions from the clay which had been in a state of exchange with the KCl solution already before the interaction. In the course of the experiments carried out by the authors with long-life KCl extracts (4 months) also other cations were observed which are able to remove the hydrogen ions. Table 1 shows the analytical results. The authors draw the following conclusions

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SOV/20-124-2-50/71  
On the Substitution Reaction of Absorbed Hydrogen Ions by Ions of Aluminum and  
Magnesium in Clay.

from them: 1) If the exchange cations are replaced by hydrogen ions for a short period in a clay of the montmorillonite type the clay can practically be completely saturated by the latter. The hydrogen ions can be replaced by cations of neutral salts. 2) The hydrogen ions in the clay investigated are easily mobile. They enter chemical reaction with forms of aluminum and magnesium incapable of reaction (neobmennyye). 3) Due to a chemical reaction the hydrogen ions form water molecules, i.e. with the hydroxyl groups of basic aluminum forms. These aluminum forms become ions and occupy places of adsorption on the surface of the substance at the bottom which has been occupied by the hydrogen ions. 4) The reaction of the substitution of hydrogen ions by aluminum ions and other cations begins as soon as the hydrogen ions enter the adsorbed state. Since this reaction takes place very rapidly, especially in the beginning, clay is never saturated with hydrogen ions by the normal method but simultaneously with the latter and with aluminum ions. 5) Irrespective of the methods of production of unsaturated clay the exchange ions of hydrogen gradually pass into a state

Card 3/4

On the Substitution Reaction of Absorbed Hydrogen Ions by Ions of Aluminum and  
Magnesium in Clay SOV/20-124-2-50/71

incapable of exchange. An equivalent amount of aluminum and magnesium forms incapable of exchange passes simultaneously into a state of exchange. There are 1 table and 6 references, 4 of which are Soviet.

ASSOCIATION: Pochvennyy institut Akademii nauk SSSR (Soil Institute,  
Academy of Sciences USSR)

PRESENTED: August 21, 1958, by I. V. Tyurin, Academician

SUBMITTED: July 17, 1958

Card 4/4

CHERNOV, V.A.

Genesis of exchangeable aluminum in soils. Pochvovedenie  
no.10:25-33 O '59. (MIRA 13:2)

1. Pochvennyy institut im. V.V.Dokuchayeva AN SSSR.  
(Aluminum) (Minerals in soil)

CHERNOV, V.A.; ANTIPIINA, T.V.

Adsorption of benzene and methanol on fluorinated aluminum oxide.  
Vest. Mosk. un. Ser. 2: Khim. 20 no. 3:23-27 My-Je '65.

1. Moskovskiy universitet, kafedra fizicheskoy khimii.

(MIRA 18:8)

CHERNOV, V.B.

PAVLOVSKIY, Ye.N., akademik, redaktor; VINOGRADOV, B.S., redaktor;  
ARNOL'DI, L.V.; BEY-BIYENKO, G.Ya.; BORKHSENIUS, N.S.; VINOGRADOV, B.S.;  
GUTSEVICH, A.V.; KIRICHENKO, A.N.; KIR'YANOVA, Ye.S.; KOZHANCHIKOV, I.V.;  
LEPNEVA, S.G.; LIKHAREV, I.M.; MALEVICH, I.I.; NOVIKOV, G.A.; POPOV, V.V.;  
POPOVA, A.N.; SOGAVA, V.B.; STARK, V.N.; TERENT'IEV, P.V.; KHARITONOV,  
D.Ye.; CHERNOV, V.B.; SHAPOSHNIKOV, G.Kh.; SHTAKEL'BERG, A.A.; YUDIN, K.A.

[Animal life of the U.S.S.R.] Zhivotnyi mir SSSR. Vol.4 [Forest zone]  
Lesnaia zona. Moskva, Izd-vo Akademii nauk SSSR, 1953. 737 p. (MLRA 7:3)  
(Forest fauna) (Zoology)

LUK'YANOV, V.L., deputat Verkhovnogo Soveta SSSR, master bloka martenovskikh pechey; GOLIKOV, I.N.; BUY, B.I.; LEPORSKIY, V.V.; SOPOV, T., Geroy Sotsialisticheskogo Truda, val'tsovshchik; MANTSEV, R.M.; CHERNOV, V.D., stalevar

We are carrying out the decisions of the 22d Congress of the Communist Party of the Soviet Union. Metallurg 7 no.7:2-6 Jl '62. (MIRA 15:7)

1. Nichne-Tagil'skiy metallurgicheskiy kombinat (for Luk'yanov).
2. Direktor TSentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii (for Golikov). 3. Sekretar' partiynogo komiteta Makeyevskogo metallurgicheskogo zavoda (for Buy).
4. Direktor zavoda "Azovstal'" (for Leporskiy). 5. Magnitogorskiy metallurgicheskiy kombinat (for Sopov). 6. Direktor Gosudarstvennogo soyuznogo instituta po proektirovaniyu agregatov staleliteynogo i prokatnogo proizvodstva dlya chernoy metallurgii (for Mantsev).
7. Chelyabinskiy metallurgicheskiy zavod (for Chernov).

(Metallurgy)

CHERNOV, V.F.; SMOL'NIKOV, S.G.; POLYAKOV, Ya.Ya.

Caustic soda by the ferrite method. Patent U.S.S.R. 77,925, Dec. 31, 1949.  
(CA 47 no.20:10815 '53)

CHERNOV, Vasiliy Fedorovich; RABINOVICH, P.V., redaktor; LUR'YE, M.S.,  
tekhnicheskiy redaktor

[The production of soda ash] Proizvodstvo kal'tsinirovannoi sody.  
Moskva, Gos. nauchno-tekh. izd-vo khim. lit-ry, 1956. 310 p.  
(Sodium carbonates)  
(MLRA 10:2)

CHERNOV, V.G., kandidat biologicheskikh nauk.

Using the dielectrical method in studying the action of pharmacological preparations on the organism of horses. Sbor.trud.  
Khar'.vet.inst. 20:72-76 '49. (MLRA 9:11)  
(Pharmacology) (Horses—Physiology) (Dielectrics)

CHERNOV, V. G.

Cand Agr Sci - (diss) "Several problems of the selection and agrotechniques of strong wheat types under conditions of the Dzhambulskaya Oblast of Kazakhstan." Alma-Ata, 1961. 16 pp; 1 p of tables; (Ministry of Higher and Secondary Specialist Education Kazakh SSR, Kazakh Agricultural Inst); 120 copies; price not given; (KL, 6-61 sup, 233)

CHERNOV, V.G.

Genesis of small intrusions in the Kumir and Korgon interfluve  
(Gornyy Altai). Geol. i geofiz. no.5:112-114 '63. (MIRA 16:8)

l. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR,  
Novosibirsk.

(Kumir Valley--Rocks, igneous)  
(Korgon Valley--Rocks, igneous)

MASLAKOVA, N.I.; CHERNOV, V.G.

New data on the Turanian deposits in the Rakhovo and Moramus'es  
Massifs of the Carpathians. Izv.vys.ucheb.zav.; geol. i razv. 8  
no.1:142-143 Ja '65. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet.

CHERNOV, V.G.

Lithology of Cretaceous sediments in the Czynozynski Crystalline  
Shield (Eastern Carpathians). Vest.Mosk.en. Ser.4: Geol. 20 no.2:  
48-54 Mr-Ap '65. (MIRA 18:5)

1. Kafedra dinamicheskoy geologii Moskovskogo universiteta.

SLAVIN, V.I.; CHERNOV, V.G.

New data on the stratigraphy of Cretaceous sediments in the  
Czywezynskie Mountains (Eastern Carpathians). Dokl. AN SSSR  
160 no.6:1385-1387 F '65. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet. Submitted July 7,  
1964.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9

KROL', O.F.; CHERNOV, V.I.; SHIPOVALOV, Yu.V.; KHAN, G.A.

"Saryarkit," a new mineral. Zap. Vses.min.ob-va 93 no. 2;  
147-155 '64. (MIRA 17:6)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9"

CHERNOV, V.I.; LIN, N.G.; SHLENOV, V.K., red.

[Practical handbook on the petrographic study of igneous rocks with a microscope] Prakticheskoe rukovodstvo po petrograficheskому izucheniiu magmaticheskikh porod pod mikroskopom. Petrozavodsk, Rosvuzizdat, 1963. 76 p.  
(MIRA 17:5)

CHERNOV, V.I.

Chernov, V.I., Red'ko, Z. Yu., and Melamud, M.G. "On defects in the work of the spa-selection commission", Vracheb. delo, 1949, No. 1, paragraphs 75-78.

SO: U-3042, 11 March 53, (Letopis 'nykh Statey, No.9, 1949)

~~CHERNOV, V.I.; SOLOV'Y, M.P.; KRASNOVA, S.B.~~

Functional state of the cardiovascular system in endocarditis  
obliterans. Vrach.delo no.11:1171-1173 N '56. (MIRA 10:3)

1. Kafedra propadevticheskoy terapii (zaveduyushchiy - dotsent  
V.I.Chernov) L'vovskogo meditsinskogo instituta.  
(ENDOCARDITIS) (CARDIOVASCULAR SYSTEM--DISEASES)

CHERNOV, V.I., dots., MASLOVA, M.S.

Blood transfusion in treating rheumatic endocarditis.  
Vrach.delo no.11:1159-1163 '58 (MIRA 12:1)

1. Kafedra propedevticheskoy terapii (zav. - dots. V.I. Chernov)  
L'yovskogo meditsinskogo instituta.  
(BLOOD—TRANSFUSION)  
(ENDOCARDITIS)

MANASTYRSKIY, R.Ya.; CHERNOV, V.I.; STUKALO, I.T.; OSNOS, M.L.; MELAMUD, M.Ya.  
(L'vov)

Certification for specialists in internal medicine. Vrach.delo no.7:  
735 Jl '59. (MIRA 12:12)  
(LVOV PROVINCE--MEDICINE--LAWS AND LEGISLATION)

CHERNOV, V.I.

Therapy of cardiac insufficiency with convallotoxin. Terap. arkh.  
32 no. 5:36-34 My '60. (MIRA 14:1)  
(CONVALLARIA) (HEART FAILURE)

CHERNOV, V.I.

Therapeutic effectiveness of convallatoxin in cardiac insufficiency.  
Vrach. delo no.12:71-76 D '60. (MIRA 14:1)

1. Klinika propedevticheskoy terapii (zav. - dotsent V.I.Chernov)  
L'vovskogo meditsinskogo instituta.  
(HEART FAILURE) (CONFALLATOXIN)

CHERNOV, V.I., dotsent

Effectiveness of strophanthin, corglycon, and convallatoxin in  
grave forms of cardiovascular insufficiency. Nauch. trudy L'vov.  
(MIRA 16:5)  
obl. terap. ob.-va no.1:237-244 '61.

I. Kafedra propedevticheskoy terapii lechebnogo fakul'teta  
L'vovskogo meditsinskogo instituta.  
(CARDIOVASCULAR SYSTEM--DISEASES) (CARDIAC GLYCOSIDES)

CHERNOV, V.I., dotsent; OSNOS, M.L., dotsent; MELAMUD, M.Ya.;  
YANKELEVICH, Ya.Kh.

Dispanseries in the control of cardiovascular diseases in the  
city of Lvov. Nauch. trudy L'vov. obl. terap. ob-shva no.1:10-15 '61.  
(MIRA 16:5)

1. L'vovskiy gorodskoy otdel zdravookhraneniya (zav. otdelom -  
Ya.I. Skibel').  
(LVOV-HOSPITALS-OUTPATIENT SERVICES)  
(LVOV-CARDIOVASCULAR SYSTEM-DISEASES)

CHERNOV, V.I., dotsent

Methods for the clinical evaluation of cardiac glycosides. Vrach.  
(MIRA 15:1)  
delo no.6:32-35 Je '61.

1. Kafedra propedevticheskoy terapii (zaveduyushchiy - dotsent V.I.  
Chernov) L'vovskogo meditsinskogo instituta.  
(CARDIAC GLYCOSIDES)

CHERNOV, V.I., dotsent; TOMASHEVSKIY, Ya.I.

Gastric secretory function in the treatment of peptic ulcer  
and chronic gastritis with Vitamin B<sub>1</sub> and nicotinic acid.  
Vrach. delo no.8:138-139 Ag '61. (MIRA 15:3)

1. Kafedra propedevticheskoy terapii (zav. - dotsent V.I.  
Chernov) lechebnogo fakul'teta L'vovskogo meditsinskogo instituta.  
(STOMACH--DISEASES)  
(THIAMINE) (NICOTINIC ACID)

MONASTYRSKIY, R.Ya.; CHERNOV, V.I., dotsent; OSNOS, M.L., dotsent;  
ROZANOV, Ye.M.

Further qualitative improvement of medical aid to cardiovascular  
patients in Lvov Province. Nauch.trudy L'vov.obl.terap. ob-va  
no.1:5-9 '61. (MIRA 16:5)  
(LVOV PROVINCE—CARDIOVASCULAR SYSTEM—DISEASES)

CHERNOV, V.I.

Age and facies of porphyritic intrusions of the northwestern  
part of the Rudnyy Altai. Izv.AN SSSR. Ser.geol. 19 no.2:125-235  
Mr-Ap '54. (MIRA 7:?)

(Altai Mountains--Rocks, Igneous) (Rocks, Igneous--Altai  
Mountains)

CHERNOV, V.I.

Some data on the petrography of acid effusives of the Devonian  
Period in Budny Altai. Trudy MGRI no.28:59-69 '55.

(MLRA 8:6)

(Altai Mountains--Geology, Stratigraphic)

CHERNOV, V. I.

15-57-5-6110

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5,  
p 57 (USSR)

AUTHOR: Chernov, V. I.

TITLE: ~~Some Questions on the Developmental History of the~~  
Zmeinogorsk Granitoid Complex in the Rudnyy Altay  
(O nekotorykh voprosakh istorii formirovaniya zmeino-  
gorskogo kompleksa granitoidov na Rudnom Altaye)

PFRIODICAL: Tr. Mosk. geol-razved. in-ta, 1956, Vol 29, pp 91-101

ABSTRACT: The recognition of Devonian granitoidal rocks in the  
Rudnyy Altay, with varieties similar to both the Zmeino-  
gorsk and Kulbinskiye granitoidy (granitoidal masses),  
requires the identification of clear petrographic  
criteria before they can be referred reliably to a  
definite complex. One of the clearest features uniting  
the rocks of the Zmeinogorsk complex is the well-defined  
trace of assimilating processes and of a hybrid magma.  
The strong influence of the host rocks is shown in the  
assimilated features in the endogene contact zones.

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15-57-5-6110

Some Questions on the Developmental History (Cont.)

Everywhere, where the granitoidal rocks are in contact with limestones or calcareous formations, a hybrid facies of rock is widely developed, showing gradual transitions from granodiorites and adamellites to more melanocratic varieties of endogene contact facies. But hybrid rocks are also widespread in those places where the Zmeinogorsk granites occur in early Paleozoic sericite-chlorite schists. A study of the granitoidal rocks exposed in the core of the Aleysk anticlinorium has shown that hybrid rocks occur almost everywhere that the granitoidal mass is in contact with rocks of basic composition (gabbro, gabbro-norite, etc.), whereas at contacts with sericite-chlorite schists, hybrid rocks have been developed only in individual tabular masses and lenses of limestones. Bodies of gabbroic rocks, transected and partially assimilated by granitic magma, have determined the essential Mg-Fe content of the majority of endogene contact varieties of granitoidal rocks. The most widespread type of melanocratic endogene contact rocks is quartz diorite, consisting of 50 percent plagioclase ( $An_{35-45}$ ), 15 percent quartz, 25 percent hornblende, and 10 percent biotite. Augite and

Card 2/3

Some Questions on the Developmental History (Cont.)

15-57-5-6110

hypersthene are also present in some parts of the rock. Among the hybrid rocks there are also found varieties containing considerable quantities of potassium feldspar; for example, quartz sericite diorite [35 percent plagioclase ( $An_{32-45}$ ), 25 percent microcline, 15 percent quartz, and 20 percent dark minerals--biotite, augite, hypersthene]. The textures of the hybrid rocks clearly reflect the order of crystallization of the minerals: plagioclase, pyroxene, hornblende and biotite, quartz, and, finally, microcline.

Card 3/3

O. V. B.

CHERNOV, V.I.

~~Main features of the geology and the petrology of intrusive complexes of the Rudnyy Altai. Biul.MOIP. Otd.geol. 31 no.4: 103 Jl-Ag '56.~~  
(MLRA 9:12)

(Altai Mountains--Rocks, Igneous)

CHERNOV, V.I.

On Devonian granitoids in the Rudnyy Altai. Dokl. AN SSSR 106  
no.3:523-525 Ja '56. (MLRA 9:6)

1. Moskovskiy geologo-razvedochnyy institut imeni S. Ordzhonikidze.  
Predstavleno akademikom N.S. Shatskim.  
(Altai Mountains--Granite)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9

CHERNOV, V.I.; GAVRILOVA, V.N.

Basic features of the geology and petrography of intrusive rocks  
in the Rudnyy Altai. Trudy VAGT no.3:99-119 '57. (MIRA 11:3)  
(Altai Mountains--Rocks, Igneous)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9"

CHERNOV, V. I.  
CHERNOV, V. I.

"History of Paleozoic Magmatism in the Rudnyy Altai"

report delivered in the Petrographic Section, 4 April to 7 June 1957.

Chronicle of the Activity of the Petrography Section, Byulleten' Moskovskogo  
Obshchestva Ispytateley Prirody, Otdel Geologicheskiy, 1957, No. 6, pp. 118-122, 1957.

Chernov, V. I.  
AUTHOR:

Chernov, V. I.

5-6-31/42

TITLE: On the History of Paleozoic Magmatism in the Rudnyy Altay  
(K istorii paleozoyskogo magmatizma na Rudnom Altaye)

PERIODICAL: Byulleten' Moskovskogo Obshchestva Ispytateley Prirody,  
Otdel Geologicheskiy, 1957, # 6, pp 144-145 (USSR)

ABSTRACT: The author describes the history of development of  
Paleozoic magmatism in the Rudnyy Altay dividing it into  
several phases. However, he remarks that the cyclicity in  
tectonic and magmatic processes in the Rudnyy Altay did not  
manifest itself very clearly, and therefore, further study  
of their history would be necessary.

AVAILABLE: Library of Congress

Card 1/1

MASHKINA, A.V.; KHRAMOV, A.V.; CHERNOV, V.I.

Catalytic hydrogenation of 3-sulfolene. Kin.i kat. 3 no.5:  
742-746 S-0 '62. (MIRA 16:1)

1. Institut kataliza Sibirskogo otdeleniya AN SSSR.  
(Thiophene) (Hydrogenation) (Catalysis)

CHERNOV, V.I.

Characteristics of the Devonian intrusive igneous activity in  
the Rudnyy Altai. Izv. vys. ucheb. zav.; geol. i razv. 8  
no. 12:32-42 D '65  
(MIRA 19:1)

1. Moskovskiy geologorazvedochnyy institut imeni S. Ordzhonikidze.

CHIBUNOVSKIY, V.A.; CHERNOV, V.K.; TURKIN, V.F.

Use of Engstrom's respirator in the implementation of controlled respiration during operations on the heart. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 9:126-129 '63. (MIRA 17:12)

BERYAKIN, Yu.M.; CHIBUNOVSKIY, V.A.; CHERNOV, V.K.

Case of gas embolism of the cerebral vessels during a mitral commissurotomy under intratracheal anesthesia with nitrous oxide and oxygen. Trudy Inst. klin. i eksp. khir. AN Kazakh. SSR 9:165-168 '63.  
(MIRA 17:12)

CHERNOV, V.K.

Chernov, V.K. "The inclusion of gypsum on lignite of the Kuyurgazinsk as a diagnostic indication of a tectonic disturbance and of the degree of carbonification," Izvestiya Otkal. otd. (Geogr. o-vo SSSR), Issue 1. 1948 p. 46450 - Bibliog: 8 items

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

1. CHERNOV, V. K.
2. USSR (600)
4. Lakes-Pollution
7. Botanical aspects of the biological-sanitation analysis of sections of lakes contiguous to populated areas. Trudy Len. ob-va est. 69 no. 3, 1949
  
9. Monthly List of Russian Accessions, Library of Congress, June \_\_\_\_\_ 1953. Unclassified.

CHERNOV, V. K.

Algae

Role of fish in the dissemination of algae. Trudy Len. ob-va est. 69, No. 3, 1949.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

CHERNOV, V.K.

Algae of the bodies of water in the Volga River floodlands,  
their biology and significance in the typology of lakes.  
Uch.zap.Len.un. no.126:212-278 '49. (MLRA 9:6)

1.Kafedra gidrobiologii.  
(Volga Valley--Algae)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9

CHERNOV, V. K.

"Algae Phytocoenocytes of Some Karelian Lakes," Uch. zap. Len. un., No.142, 1951

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308530012-9"

LITVINOV, N.N. (Velikiye Luki); ANTONOV, P.K. (Ul'yanovskaya oblast');  
CHERNOV, V.M. (Magnitogorsk); PETROV, V.P. (Leningrad)

Terminology and concepts of elementary algebra. Mat. v shkole no.  
5:59-65 S-0 '63. (MIRA 16:11)

CHERNOV, V.M.

Conditions governing the formation of the Kostomuksha iron ore  
deposit. Izv.Kar.i Kol'.fil.AN SSSR no.3:17-27 '59.  
(MIRA 13:4)

1. Otdel regional'noy geologii Karel'skogo filiala AN SSSR.  
(Kostomuksha region--Iron ores)

CHERNOV, V.M.

Asymptotic relations for certain integral transformations. Uch.  
zap. MGZPI no. 3:103-143 '59. (MIRA 13:5)  
(Transformations(Mathematics))

CHERNOV, V. M.

AID P - 3337

Subject : USSR/Power Engineering  
Card 1/1 Pub. 26 - 23/28  
Authors : Paradiyev, I. V., Foreman, V. M. Chernov, Eng.  
Title : New splicing of up to 10 ky conductors  
Periodical : Elek. sta., 8, 54-56, Ag 1955  
Abstract : The article discusses the use of polychlorvinyl ribbons and lead coating on spliced wire ends. A table with data on the wires and lead coating is given. Four diagrams.  
Institution : None  
Submitted : No date

CHERNOV, V.M., inzhener.

Experience in operating suburban radio relay lines. Vest.sviazi 17  
no.1:22 Ja '57. (MLRA 10:2)  
(Radio relay systems)

25(6)  
28(1)

S/028/60/000/03/005/029  
D041/D006

AUTHOR: Chernov, V.M.

TITLE: Permanent Magnets and Their Magnetic Characteristics

PERIODICAL: Standartizatsiya, 1960. Nr 3, pp 18-19 (USSR)

ABSTRACT: At present, permanent magnets are produced in accordance with the "GOST 4402-48" standard - "Cast Permanent Magnets for Aviation Magnetos and Instruments". However, this standard does not cover a number of alloys for permanent magnets widely used in the industry ("ankoti", cupreous, and other alloys). At present unified methods for measuring magnetic properties, and appropriate standardized measuring instruments are lacking. A permeameter produced by the Kiyevskiy zavod "Tochelektronpribor" (Kiyev "Tochelektronpribor" Plant) is suitable for laboratory investigations only. On instructions of the Komitet standartov, mer i izmeritel'nykh priborov (Committee

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Permanent Magnets and Their Magnetic Characteristics

of Standards, Measures, and Measuring Instruments) and Gosplan USSR, the Vsesoyuznyy nauchno-issledovatel'skiy institut elektroizmeritel'nykh priborov - Leningrad (All-Union Scientific Research Institute for Electric Measuring Instruments in Leningrad) is preparing a standard draft for permanent cast magnets. In addition to the state standard, the scientific research institute should develop branch standards for permanent magnets of all dimensions and which show their magnetic properties. The author points out the need for the development and serial production of standardized, highly productive, and automatic instruments for determining the magnetic properties of magnets.

Card 2/2

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S/140/61/000/004/012/013  
C111/C222

AUTHOR: Chernov, V. M.

TITLE: Some limit relations for the two-sided Laplace transformation and its application

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika,  
no. 4, 1961, 125-136

TEXT: The two-sided Laplace transformation

$$f(p) = p \int_{-\infty}^{+\infty} e^{-pt} h(t) dt, \alpha < \operatorname{Re} p < \beta,$$

is symbolically written as  $f(p) \stackrel{?}{=} h(t)$ ,  $\alpha < \operatorname{Re} p < \beta$ , and is represented as the sum of two one-sided Laplace transformations

$$f(p) = f_1(p) - f_2(-p) \quad (\alpha < \operatorname{Re} p < \beta)$$

where

$$f_1(p) \stackrel{?}{=} h(t) U(t), \operatorname{Re} p > \alpha,$$

$$f_2(-p) \stackrel{?}{=} h(-t) U(t), \operatorname{Re} p < \beta,$$

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and  $U(t)$  denotes the unity-function. From the well-known properties of one-sided Laplace transformations then there result several properties of the two-sided transformations, e. g. :

Theorem 1.2: If  $f(p) = h(t)$ ,  $0 < \operatorname{Re} p < \beta$  then

$$\lim_{t \rightarrow +\infty} \frac{h(t)}{t^\nu} = \lim_{p \rightarrow +0} \frac{p^\nu f(p)}{\Gamma(\nu+1)}, \quad (\nu > -1).$$

Theorem 2.2: If

$$F(p) = \int_{-\infty}^{+\infty} e^{-pt} h(t) dt$$

converges for  $\alpha < \operatorname{Re} p < \beta$ ,  $\beta > 0$  and  $h(t) \sim ct^\lambda$  for  $t \rightarrow +\infty$ ,  $\operatorname{Re} \lambda > 1$  then

$$F(p) \sim c \frac{\Gamma(\lambda+1)}{p^{\lambda+1}} \text{ for } p \rightarrow +0.$$

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